## IN THE CLAIMS:

Please cancel Claims 1, 6, 14, 15, 16, 21, 29, and 30 without prejudice. Please amend Claims 2-5, 7-11, 17-20, 22 and 24-26 to read as follows. (A redacted version of amended claims is attached to this reply.)

2. A method for determining data relationships of data associated with product placement in a retail space, the method comprising the computer-implemented steps of: determining locations of products within the retail space using a position identifying system;

identifying customers within the retail space;

recording paths of customers through the retail space using the position identifying system;

identifying products chosen for purchase by the customers during the paths of the customers through the retail space; and

associating the locations of products within the retail space with the paths of the customers through the retail space to form a set of spatial relationships; and

employing data mining algorithms to generate input data for forming the set of spatial relationships.

- The method of claim 2 further comprising:
   employing spatial analysis algorithms to form the set of spatial relationships.
- 4. The method of claim 2 wherein the position identifying system comprises a global positioning system or other remote sensing device.
- 5. The method of claim 2 wherein the position identifying system comprises a local positioning system that may or may not be associated with a global positioning system.

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- 7. The method of claim 9 further comprising: selecting locations for products in the retail space based on the set of spatial relationships.
- 8. The method of claim 7 further comprising: identifying locations of products relocated within the retail space based on the selected locations; and

associating the patterns of customers with the locations of relocated products to form a second set of spatial relationships.

9. A method for determining data relationships of data associated with product placement in a retail space, the method comprising the computer-implemented steps of: identifying patterns of customers in the retail space; identifying locations of products within the retail space; and associating the patterns of customers with the locations of products to form a set of spatial relationships; and employing data mining algorithms to generate input data for forming the set of

employing data mining algorithms to generate input data for forming the set of spatial relationships.

- The method of claim 9 further comprising:employing spatial analysis algorithms to form the set of spatial relationships.
- 11. The method of claim 9 further comprising:
  identifying patterns of customers and locations of products within the retail space
  comprises using a position identifying system.

17. A data processing system for determining data relationships of data associated with product placement in a retail space, the data processing system comprising:

determining means for determining locations of products within the retail space using a position identifying system;

first identifying means for identifying customers within the retail space;

recording means for recording paths of customers through the retail space using the position identifying system;

second identifying means for identifying products chosen for purchase by the customers during the paths of the customers through the retail space; and

associating means for associating the locations of products within the retail space with the paths of the customers through the retail space to form a set of spatial relationships and

first employing means for employing data mining algorithms to generate input data for forming the set of spatial relationships.

- 18. The data processing system of claim 17 further comprising:
  second employing means for employing spatial analysis algorithms to form the set of spatial relationships.
- 19. The data processing system of claim 17 wherein the position identifying system comprises a global positioning system.
- 20. The data processing system of claim 17 wherein the position identifying system comprises a local positioning system.
- 22. The data processing system of claim 24 further comprising: selecting means for selecting locations for products in the retail space based on the set of spatial relationships.

24. A data processing system for determining data relationships of data associated with product placement in a retail space, the data processing system comprising:

first identifying means for identifying patterns of customers in the retail space; second identifying means for identifying locations of products within the retail space; and

first associating means for associating the patterns of customers with the locations of products to form a set of spatial relationships and